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1/1 - (C) WPI / DERWENT

- 2001-019312 [03]

- JP19990082660 19990326 AP

CPY - TAIC

DC - B04 D13 D16 D21

FS - CFI

IC - A23R1/165 ; A23L1/30 ; A61R7/00 ; A61R38/46 ; A61P31/04 ; C12N9/36

- B04-B04M B04-D01 B04-L01 B14-A01 D03-H02 D03-M D05-A02 D08-A05 D08-B MC

- [01] M423 M431 M710 M782 M905 P220 F912 Q233 Q254; RA00GC-T RA00GC-M

- [02] M423 M431 M710 M782 M905 P220 P912 Q233 Q254; RA0120-T RA0120-M RA0120-N

- (TAIC ) TAIYO KAGAKU KK PA

- JP2000270858 A 20001003 DW200103 C12N9/36 006pp

- JP19990082660 19990326

- C2001-005830 XA

XIC - A29K-001/165 ; A29L-001/30 ; A61K-007/00 ; A61K-038/46 ; A61P-031/04 ; C12N-009/36

- JP2000270858 NOVELTY A lysozyme sugar composite (LSC) is isolated and purified from an egg white liquid containing at least one saccharide.
  - ACTIVITY Antimicrobial,
  - Egg white liquid (EWL) (1 1) was homogenized, and EWL with protein content was isolated, to which trohalose (0.1 kg) was added and stirred for 1 hour at 5 deg. C to prepare the lysozyme sugar composite (LSC). EWL was treated with an alkali and then with a cation exchange resin like Amberlite IRC-50 (200 ml) to adsorb LSC. The resin settled separating a supernatant EWL was washed in water and 3% of salt solution (1000 ml) was added. 1N sodium hydroxide was added to elute LSC. The resin containing solution was filtered, and the obtained filtrate was set to pf 9.5. The salting method with 5% salt concentrations collected LSC (9.5 g) in a cake form was dried to obtain LSC crystals (3.1 g). Antimicrobial activity of LSC crystal opposing to gram negative microbe like Escherichia coli was determined by evaluating the number of living microbes for 24 hours at 35 deg. C. The result obtained showed that LSC crystal had 25% of the number of living microbes. Thus showing that LSC crystal had high antimicrobial activity opposing to E. coli.
    - MECHANISM OF ACTION None given.
  - USE As antimicrobial agent in gram positive and negative microbes, pharmaceutical, cosmetics, foodstuff and feed field, and as storage life improvement agent of foodstuffs such as boiled fish paste, custard cream, pickles, sausage, ham, cooked rice and egg processed goods. As quasi-drugs like mouth washing liquids and cosmetics like shampoo. Useful in livestock, preventing illness of aquatic animal feed additive, and animal drug. For inhibiting pathogenic microbe of dandruff and dental carries, and as rinse and dentifrice agent.
  - ADVANTAGE LSC effectively reinforce the antimicrobial activity opposing to the gram positive and negative microbes. The antimicrobial spectrum is effectively enlarged by LSC. LSC effectively reduces the density of the conventional anti-microbial compound. LSC as storage life improvement agent prevents decomposition and disinfection of

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foodstuffs. LSC as livestock prevents the illness caused by aquatic animal feed additive or animal drug.

- (Dwg.0/0)
- CH RADOGC-T RADOGC-M RADOGC-N RAD120-T RAD120-M RAD120-N
- IW LYSOZYME SUGAR COMPOSITE ANTIMICROBIAL AGENT GRAM NEGATIVE MICROBE ISOLATE PURIFICATION EGG WHITE LIQUID CONTAIN
- IKW LYSOZYME SUGAR COMPOSITE ANTIMICROBIAL AGENT GRAM NEGATIVE MICROBE ISOLATE PURIFICATION EGG WHITE LIQUID CONTAIN
- NC 001
- OPD 1999-03-26
- ORD 2000-10-03
- PAW (TAIC ) TAIYO KAGAKU KK
- TI Lysozyme sugar composite as antimicrobial agent for gram negative microbe, is isolated and purified from egg white liquid containing saccharides

JP2000270858

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- B04-B04M B04-D01 B04-L01 B14-A01 D03-H02 D03-M D05-A02 D08-A05 D08-B

- 2001-019312 [03] AN

- Lyspayme sugar composite as a limit of all agent for gram negative microbe, is isolated and purified from egg white liquid TI containing saccharides

- JP2000270858 NOVELTY - A iysozyme sugar composite (LSC) is isolated and purified from an egg white liquid containing at least one saccharide.

- ACTIVITY With the control of the c

- Egg white liquid (EWL) (1 I) was homogenized, and EWL with protein content was isolated, to which trehalose (0.1 kg) was added and stirred for 1 hour at 5 deg. C to prepare the tysozyme sugar composite (LSC). EWL was treated with an alkali and then with a cation exchange resin like Amberlite IRC-50 (200 ml) to adsorb LSC. The resin settled separating a supernatant EWL was washed in water and 3% of salt solution (1000 ml) was added. 1N sodium hydroxide was added to elute LSC. The resin containing solution was filtered, and the obtained filtrate was set to pH 9.5. The salting method with 5% salt concentrations collected LSC (9.5 g) in a cake form was dried to obtain LSC crystals (3.1 givenimic fobjal activity of LSC crystal opposing to gram negative microbe like Escherichia coli was determined by evaluating the number of living microbes for 24 hours at 35 deg. C. The result obtained showed that LSC crystal had 25% of the number of living microbes. Thus showing that LSC crystal had high and high

- MECHANISM OF ACTION - None given.

- USE - As antimicropial agent in gram positive and negative microbes, pharmaceutical, cosmetics, foodstuff and feed field, and as storage life improvement agent of foodstuffs such as boiled fish paste, custated cream, pickles, sausage, ham. cooked rice and egg processed goods. As quasi-drugs like mouth washing liquids and cosmetics like shampoo. Useful in livestock, preventing illness of aquatic animal feed additive, and animal drug. For inhibiting pathogenic microbe of dandruff and dental carries, and as rinse and dentiffice agent

- ADVANTAGE - LSC effectively reinforce the antific offal activity opposing to the gram positive and negative microbes. The animicrobial spectrum is effectively enlarged by LSC. LSC effectively reduces the density of the conventional anii-microvial compound. LSC as storage life improvement agent prevents decomposition and disinfection of foodstuffs.

LSC as livestock prevents the illness caused by aquatic animal feed additive or animal drug.

- (Dwg.0/0)

- LYSOZYME SUGAR COMPOSITE ANTIMICROBIAL AGENT GRAM NEGATIVE MICROBE ISOLATE PURIFICATION IW EGG WHITE LIQUID CONTAIN
- JP2000270858 A 20001003 DW200103 C12N9/36 006pp PN
- A23K1/165 ;A23L1/30 ;A61K7/00 ;A61K38/46 ;A61P31/04 ;C12N9/36 IC

- B04 D13 D16 D21 ĎC

- (TAIC ) TAIYO KAGAKU KK PA
- JP19990082660 19990326 AP
- JP19990082660 19990326
- →D 1999-03-26
- ORD 2000-10-03